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**UNITED STATES DISTRICT COURT
EASTERN DISTRICT OF WASHINGTON**

CITY OF SPOKANE, a municipal
corporation, located in the County of
Spokane, State of Washington,

Plaintiff,

v.

MONSANTO COMPANY, SOLUTIA
INC., and PHARMACIA
CORPORATION, and DOES 1 - 100,

Defendants.

CASE NO. 15-cv-00201-SMJ

Judge Hon. Salvador Mendoza Jr.

**DEFENDANTS' DAUBERT MOTION
TO EXCLUDE THE EXPERT
TESTIMONY OF LISA RODENBURG**

Hearing March 12, 2020 at 8:30 a.m.
Richland
With Oral Argument

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1 **I. INTRODUCTION**

2 Monsanto challenges the admission of opinions from Plaintiff's expert, Lisa
3 A. Rodenburg, Ph.D. ("Rodenburg"), based on her sworn testimony, admissions
4 under oath, and prior statements made in academic settings. Rodenburg is one of
5 Plaintiff's experts on the issue of PCB product identification. *See* Rodenburg
6 Report, attached as Ex. A of Miller Decl. Rodenburg purports to be able to
7 demonstrate, statistically, that a high percentage of PCBs found in the Spokane
8 River were manufactured by Monsanto ("Aroclors") as opposed to those created by
9 other manufacturers and inadvertent, or "byproduct" PCBs—*i.e.*, those which are
10 unintentionally created through 100s of manufacturing processes involving heat,
11 carbon and chlorine, or by simple combustion/incineration. *Id.* at 2; *see also*
12 Spokane Deposition, at 43:6-14, Ex. B of Miller Decl.; *Id.* at 51:4-6, 57:12-58:25,
13 61:4-63:25; San Diego Deposition, at 18:21-19:11, Ex. C of Miller Decl.¹

14 Rodenburg concedes that she cannot differentiate between foreign made
15 PCBs and PCBs made domestically by Monsanto (Ex. B at 81:8-14, 82:4-8, 87:22-
16 88:12) and that byproduct PCBs are found in numerous consumer products at
17 concentrations of up to 2,000 ppm—11,764,705,882.35 times greater than the 170
18 ppq water quality standard for the State of Washington under WAC 173-201A-
19 240. *Id.* at 16:10-18:20; Ex. C at 28:6-34:4, 55:15-56:5. Rodenburg also concedes
20 that, of the 209 individual PCB compounds (called "congeners"), at least 128 may
21 be produced unintentionally through manufacturing processes. Ex. C at 54:14-24.

22 _____
23 ¹ Rodenburg adopted in this case her San Diego deposition testimony regarding
24 byproduct PCBs. Ex. B at 13:2-18:20.

1 Before being hired as a litigation expert in this case, Rodenburg reported at
2 an academic seminar that byproduct PCBs were the “main problem” facing the
3 Spokane River. Ex. B at 72:17-73:17. It is therefore astonishing that, in this case,
4 she has employed various statistical sleights of hand to reach the direct opposite
5 opinion. As will be demonstrated, Rodenburg did this by rigging statistical
6 analyses to ensure that she arrived at the conclusion she was hired to reach—that
7 Aroclors are the “main sources” of PCBs in the Spokane River. Ex. A at 2.

8 **II. LEGAL STANDARD**

9 Rule 702’s gatekeeping authority vested in courts ensures an expert’s
10 testimony “rests on a reliable foundation.” *Daubert v. Merrell Dow*
11 *Pharmaceuticals*, 509 U.S. 579, 597 (1993). A district court must first determine
12 “nothing less than whether the experts’ testimony reflects scientific knowledge,
13 whether their findings are derived by the scientific method, and whether their work
14 product amounts to good science.” *Daubert II*, 43 F.3d at 1315.

15 *Daubert* “demands a searching inquiry as to method.” *United States v.*
16 *Webb*, 115 F.3d 711, 716 (9th Cir. 1997). “[A]ny step that renders the analysis
17 unreliable . . . renders the expert’s testimony inadmissible.” *Goebel v. Denver &*
18 *Rio Grande Western R.R.*, 346 F.3d 987, 992 (10th Cir. 2003) (citations and
19 internal quotations omitted). Testimony that requires “too great an analytical gap
20 between the data and the opinion offered” is impermissible. *General Elec. Co. v.*
21 *Joiner*, 522 U.S. 136, 146 (1997). When considering the reliability of expert
22 testimony, a trial court should evaluate whether “the theory or technique employed
23 by the expert” is (1) “generally accepted in the scientific community,” (2) has been
24 “subjected to peer review and publication,” (3) “it can be and has been tested,” and

(4) “the known or potential rate of error is acceptable.” *Daubert II*, 43 F.3d at 1316-17 (citing *Daubert*, 509 U.S. at 593-595).

III. ARGUMENT

A. The Data Underlying Rodenburg’s Opinions are Unreliable

Rodenburg cannot vouch for the representativeness of the sampling data that she reviewed, much of which was selected by Plaintiff’s counsel. Ex. A at 4. She did not choose the number, location, or time at which sampling occurred, nor did she independently design a sampling program to represent the Spokane River as a whole. Ex. B, at 101:21-102:9. As a result, Rodenburg does not know whether the data are representative of the Spokane River, or instead, merely represent the condition of specific sites when and where the data were collected. *Id.* at 103:19-104:3. Rodenburg’s inability to vouch for the representativeness of the data she reviewed renders her opinions unreliable. *See* Fed. R. Evid. 702(c) (expert testimony must be based on “sufficient facts or data”); *Waskowski v. State Farm Mut. Auto. Ins. Co.*, 970 F. Supp. 2d 714, 723 (E.D. Mich. 2013) (excluding opinions which are not “based on sufficient facts or data” where damages expert failed to consider data representative of damages at issue, and based estimates on representations made by plaintiff’s counsel).

Additionally, Rodenburg did not make any effort to confirm that the data she reviewed had been subjected to appropriate QA/QC and blank correction² by the

² Rodenburg was unable to identify which methods of blank correction, if any, were adhered to for any of the environmental compartments from which sampling

1 sampling laboratories. Instead, Rodenburg “assume[d] that the data [was] valid”
2 because it was downloaded from a Washington State database. Ex. B at 91:20-
3 92:18, 95:7-96:17. Without appropriate QA/QC, it is impossible to determine
4 whether data is valid. *Id.* at 95:23-96:4. Without appropriate blank correction, it is
5 impossible to determine whether PCBs identified in sampling data were derived
6 from lab or field contamination, which Rodenburg has described as a “significant
7 problem” for the Spokane River, where PCB concentrations are “fairly low”. *Id.* at
8 173:17-175:2. Because Rodenburg did not ensure that appropriate QA/QC and
9 blank correction measures were followed, Plaintiff has failed to establish that the
10 data her opinions rely upon is reliable. *Tressler v. BNSF Ry. Co.*, No. CV-10-188-
11 RMP, 2012 WL 315402, at *2 (E.D. Wash. Feb. 1, 2012) (a party must “point to
12 some objective source . . . to show that [an expert] has followed the scientific
13 method”) (citing *Daubert II*, 43 F.3d at 1318-19).

14 Rodenburg also relied on data that were “flagged” by the sampling
15 laboratories as unreliable. Data containing a “B” flag means that an associated
16 blank has also detected the presence of PCBs, and must therefore be blank
17 corrected. Ex. B at 265:11-19; 269:15-24. Data containing an “N” flag signifies
18 non-detection within the sample. *Id.* at 271:11-17. Rodenburg, however, did not
19 perform any blank correction on “B” flagged data, and, contrary to laboratory
20 protocol, reported the presence of PCBs in data containing both “B” and “N” flags.
21 *Id.* at 265:15-19, 267:8-272:24. Reliance upon data that laboratories have flagged
22 _____

23 data were collected other than surface water and one groundwater compartment.
24 Ex. B at 186:20-187:5.

1 as unreliable renders all of Rodenburg’s opinions inadmissible.

2 Rodenburg concedes that she also failed to accurately input raw data,
3 causing the digit to the left of a decimal point (reporting concentrations of
4 byproduct PCBs) to become zero. *Id.* at 275:16-19 (“Q. So you essentially lopped
5 off the first digit; correct? A. Well, let me – I don’t know how that happened.”). As
6 a result, Rodenburg misreported and diminished the concentration of byproduct
7 PCBs by a factor of 16 for certain data. *Id.* at 276:9-277:14.

8 Finally, Rodenburg reported the presence of certain Aroclor PCBs in at least
9 31 samples for which her analyses returned negative coefficients—signifying that
10 *no* such Aroclors were present. *Id.* at 189:18-190:22, 191:10-227:19. By reporting
11 the presence of Aroclors when her analyses generated negative coefficients,
12 Rodenburg admittedly failed to engage in “sound science”. *Id.* at 227:20-228:2:

13	20	Q. In your opinion, is it sound
	21	science to report the presence of Aroclors
14	22	when an MLR analysis generates a negative
	23	coefficient?
15	24	A. No.
	25	Q. Did you do that in this case?
16	2	A. Yes.

17 Because the data underlying her opinions are unreliable, and Rodenburg admittedly
18 failed to engage in “sound science”, her opinions should be excluded from trial.
19 *Daubert II*, 43 F.3d at 1317-18; *see also Goebel*, 346 F.3d at 992.

20 **B. The Methodology Rodenburg Employed is Unreliable**

21 In forming her opinions, Rodenburg used two statistical tools—Positive
22 Matrix Factorization (“PMF”) and Multiple Linear Regression (“MLR”)—but
23 rigged them to ensure that sampling data would look like Aroclor, rather than
24 byproduct PCBs. Ex. A at 4. Rodenburg achieved this through various data

1 manipulations which are discussed in turn below.

2 First, Rodenburg compared sampling data only to Aroclor PCB patterns or
3 “fingerprints.” Ex. A at 8; Ex. B at 127:24-130:7, 187:7-188:11 (Rodenburg’s PMF
4 and MLR analyses generated “factors” that she then numerically compared to
5 fingerprints of Aroclors 1016, 1242, 1248, 1254 and 1260.) Rodenburg did not
6 numerically determine the extent to which sampling data resembled byproduct
7 PCBs, despite admitting that she could have done so. *Id.* at 130:14-131:13. As a
8 result, Rodenburg’s analyses were designed to ensure that all sampling data would
9 resemble Aroclors; she did not even *consider* the extent to which sampling data
10 numerically resembled byproduct PCBs. *Id.* at 133:11-14 (“Q. The only thing you
11 numerically compared the factors to were Aroclors; correct? A. Correct.”).

12 Next, when a factor did not numerically match an Aroclor, Rodenburg
13 “visually” compared that factor with “what [she] knew about . . . byproduct
14 PCB[s]” to subjectively determine whether the sample more closely resembled an
15 Aroclor or byproduct fingerprint. *Id.* at 128:21-130:18. However, the only
16 byproduct congeners that Rodenburg “visually” considered were those found in
17 pigments and silicones—primarily PCBs 11 and 209 (*id.* at 132:16-133:10; 172:22-
18 173:16) despite admitting that more than 200 manufacturing processes (in addition
19 to combustion/incineration) have been identified as generating byproduct PCBs,
20 and 128 individual congeners have been identified as byproduct in nature. *Id.* at
21 43:6-14, 51:4-6, 132:16-23; *see also* Ex. C at 54:14-24. This undercounting of
22 byproduct PCBs renders her analysis unreliable and inadmissible. Moreover,
23 Rodenburg’s “visual” comparison of factors to “what [she] knew” about byproduct
24 PCBs is not a generally accepted methodology. Thus, Rodenburg’s opinions are

1 not the product of reliable principals and methods, and should be excluded from
2 trial. *Daubert II*, 43 F.3d at 1316-17.

3 Additionally, in order to quantitatively determine the extent to which
4 sampling data resembled Aroclor fingerprints, Rodenburg employed numerical
5 cutoffs (or “R² values”) of her own creation which: (1) are scientifically arbitrary
6 and indefensible; (2) have never been subjected to peer-review; and (3) are
7 contradicted by authoritative literature that Rodenburg cites favorably. Ex. B at
8 135:12-136:2, 138:18-139:16, 140:25-142:2. According to Rodenburg, an R² value
9 of 0 to 0.4 signifies that sampling data contained either a highly weathered Aroclor
10 or an unknown constituent; 0.4 to 0.8 signifies a weathered Aroclor³; and 0.8 to 1.0
11 signifies an unweathered Aroclor. *Id.* at 134:9-18. These cutoffs, however, have
12 never been published in any handbook, textbook or peer-reviewed article. *Id.* at
13 135:12-136:2. Instead, they were contrived by Rodenburg and have never been
14 subjected to peer-review. Ex. A at 5; Ex. B at 139:12-16. Rodenburg concedes that
15 she cannot scientifically disprove the use of R² cutoff values different than those
16 she selected for her analyses. Ex. B at 138:18-139:6. Indeed, a published study that
17 Rodenburg cites favorably used different R² values, requiring a value of 0.9 or
18 greater to determine whether a sample contained PCBs, and rejecting an R² value
19 of 0.725 as insufficient. *Id.* at 140:25-142:2; Ex. A, at 8.

20 Critically, had Rodenburg used an R² cutoff of 0.9 to signify the presence of
21 Aroclor PCBs, none of the municipal product data (105 total samples) and only
22 _____

23 ³ Rodenburg posits that PCBs can become “weathered” over time, thus changing
24 their chemical makeup. Ex. B at 146:16-24.

1 26% of the environmental sampling data (51 out of 195 samples) would have been
2 deemed to acceptably resemble Aroclors under her MLR analyses. Ex. A at Table
3 3, p. 25-35; *Id.* at Table 4, p. 39-43. Similarly, none of the stormwater or fish tissue
4 samples, and only one surface water and one waste water treatment plant sample,
5 would have been deemed to resemble Aroclors under her PMF analyses. Ex. A at
6 16-20; Ex. B at 153:20-154:25, 155:6-9. Nevertheless, Rodenburg employed
7 arbitrary R^2 cutoff values favorable to the conclusion she was hired to reach—that
8 Aroclors are the “main sources” of PCBs in the Spokane River. Ex. A at 2.

9 Because her PMF and MLR analyses were rigged to ensure that sampling
10 data would resemble Aroclor rather than byproduct PCBs, and are based on
11 quantitative cutoffs that are arbitrary, scientifically indefensible, and have never
12 been subjected to peer review, Rodenburg’s opinions do not reflect “scientific
13 knowledge” and should therefore be excluded from trial. *Whisnant v. United*
14 *States*, No. C03-5121, 2006 WL 2861112, at *3 (W.D. Wash. Oct. 5, 2006), *aff’d*,
15 274 F. App’x 536 (9th Cir. 2008) (“[T]he party presenting the expert must show
16 that the expert’s findings are based on sound science, and this will require some
17 objective, independent validation of the expert’s methodology.”); *Henricksen v.*
18 *ConocoPhillips Co.*, 605 F. Supp. 2d 1142, 1153 (E.D. Wash. 2009) (“The court
19 need not admit an expert opinion that is connected to the underlying data ‘only by
20 the ipse dixit of the expert.’”) (quoting *Joiner*, 522 U.S. at 146).

21 Rodenburg also does not consistently interpret R^2 values using the 0-0.4,
22 0.4-0.8 and 0.8-1.0 cutoffs. For storm drain solid, stormwater, City of Spokane
23 treated effluent, biofilm and river sediment sampling data, Rodenburg attempted to
24 translate R^2 values to a percentage-weight of Aroclor PCBs. Ex. B at 239:21-

1 240:18, 241:4-18. That is, according to Rodenburg, “one way to interpret” an R^2
2 value of 0.5 is that 50% of the sampling data is comprised of Aroclor PCBs. *Id.* at
3 236:21-237:18. Rodenburg is unable to identify any peer-reviewed literature or text
4 to support her theory that an R^2 value can be translated to a percentage-weight. *Id.*
5 at 236:23-238:14. Thus, Rodenburg’s opinions regarding percentage-weights of
6 Aroclor PCBs are unreliable and should be excluded. *Tressler*, 2012 WL 315402,
7 at *2; *see also Daubert II*, 43 F.3d at 1316-17.

8 Additionally, Rodenburg failed to consider significant alternative sources of
9 PCBs when conducting her analyses. Despite the fact that foreign-manufactured
10 PCBs are “virtually identical” to those historically manufactured by Monsanto (Ex.
11 B at 84:20-85:7, 90:2-19) and at least 50% of the worldwide supply of commercial
12 PCBs were made by third parties (*id.* at 82:4-8), Rodenburg failed to investigate
13 the extent to which other manufacturers’ PCBs were imported into the Spokane
14 River watershed (*id.* at 90:21-91:2) and did not consider the extent to which
15 atmospheric deposition of PCBs produced in Asia may have impacted PCB levels
16 in the Spokane River. *Id.* at 91:3-7. Rodenburg also failed to analyze the extent to
17 which the City’s waste-to-energy incineration plant, which disposed of nearly
18 138,000 metric tons of garbage in 2015 (*id.* at 67:19-68:6), contributes to
19 byproduct PCB loading in the Spokane River, despite admitting that PCBs are
20 generated by combustion processes including waste incineration. *Id.* at 51:4-6,
21 57:12-61:22, 63:7-15.

22 In a similar vein, Rodenburg improperly assumed that Aroclors are the
23 “main source” of PCBs in the effluent of the Inland Empire Paper (“IEP”) facility,
24 which, according to Rodenburg, “is to be expected given that Aroclor 1242 was

1 used in carbonless copy [NCR] paper.” Ex. A at 38. Despite this bald assertion,
2 Rodenburg was unable to identify *any* evidence that IEP ever manufactured or
3 recycled NCR paper (Ex. B, at 254:2-5), and a report prepared on behalf of the
4 Spokane River Regional Toxics Task Force states that PCBs in IEP’s effluent
5 “correlated with [byproduct] PCBs in pigments used on the paper products they
6 recycle.” *Id.* at 258:15-259:10. This is consistent with IEP’s own analysis that its
7 effluent was PCB free until it began recycling in 1991. *Id.* at 252:11-253:3, 257:8-
8 24. Rodenburg’s opinions regarding IEP’s effluent are further undermined by two
9 facts: (1) NCR paper has not been manufactured since 1971 (*id.* at 247:20-25); and
10 (2) paper can only be recycled between 5 and 7 times. *Id.* at 248:6-14, 253:11-24.
11 Nevertheless, Rodenburg disregarded the weight of evidence—and more logical
12 explanation—that IEP’s effluent contains byproduct PCBs from pigments on the
13 paper it recycles, rather than Aroclors from NCR paper which has not been
14 manufactured for 49 years and is almost certainly beyond its recyclable lifecycle.

15 Because she failed to consider obvious alternative PCB sources, and ignored
16 “inconvenient” evidence when conducting her analyses, Rodenburg’s opinions are
17 unreliable, and should be excluded from trial. *Abarca v. Franklin Cty. Water Dist.*,
18 761 F. Supp. 2d 1007, 1066 at FN60 (E.D. Cal. 2011) (“[A] reliable expert would
19 not ignore contrary data, misstate the findings of others, [or] make sweeping
20 statements without support”); *Henricksen*, 605 F. Supp. 2d at 1162.

21 **IV. CONCLUSION**

22 For the foregoing reasons, Rodenburg’s opinions do not meet the standard
23 for expert opinions mandated by *Daubert* and should be excluded from trial under
24 Rule 702.

Respectfully submitted this 28th day of January, 2020.

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CERTIFICATE OF SERVICE

I certify that on January 28, 2020 I caused the foregoing to be electronically filed with the clerk of the Court using the CM/ECF System which in turn automatically generated a Notice of Electronic Filing (NEF) to all parties in the case who are registered users of the CM/ECF system. The NEF for the foregoing specifically identifies recipients of electronic notice.

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